2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 10

WRIA	Listing ID Ca	ategory	98 List?	Waterbody Name Basis	Location I	nformatio	n			Parameter	Remarks	Medium
10	16706	5	N	BOISE CREEK Hallock (2004), Dept. of Ecology ambient station 10D070 shows 1 of 1 sample (100%) in ye	CT48DX ar 2001 exc		20N e perce			Fecal Colifo	rm	Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10D070 (Boise Cr @ Buckley) 0% of the samples do not exceed the percentile criterion from 3 samples collected during 20		ometric m	nean of	68 do	es not exceed the cr	iterion and that		
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10D070 (Boise Cr @ Buckley) shows a geometric mean of 108 exceeds the criterion and that 44 the samples exceeds the percentile criterion from 9 samples collected during 2001.							f	
				Erickson (1999) station BOI00.1 (Boise CreekBOI00.1) shows the geometric mean of 283.9 percentile criterion from 6 samples collected during 1996.	3 exceeds th	e criterio	on and t	hat 50	% of the samples ex	ceeds the		
10	35337	5	N	BOISE CREEK	CT48DX	4.351	20N	07E	30	рН		Water
				Puyallup Tribe of Indians unpublished data at station BOI-1 (submitted by Char Naylor on 3 measurements collected from 1999-2001.	March 2003) show 1	0 excur	sions b	peyond the criterion	from 49	Low pH	
10	7496	5	Υ	BOISE CREEK	CZ10IN	0	20N	07E	27	Temperatur	e	Water
				Data collected by the Muckleshoot Indian Tribal TFW staff show multiple excursions beyond	the criterior	n (RM 7.0)) durin	g 1992			results reported as is continued from 1	rature measurements were taken, but single day maximums. Category 5 listing 1998 assessment based on multiple ontinuous monitoring.
10	7497	5	Υ	CLARKS CREEK	AD37IU	2.428	20N	04E	30	Fecal Colifo	rm	Water
				Ebbert, et al. 1987. , 1 excursion beyond the criterion (at inflow to Hatchery near Puyallup)	on 2/84.							a were previously submitted only in
				Ebbert, et al. 1987., 3 excursions beyond the criterion at station 12102075 (at Indian Reser	vation Boun	dary at P	uyallup) in 8/	83, 11/83, and 2/84;		based on the 1998	ne water segment is listed as Category 5 assessment.
				KCM (1996) shows the geometric mean criterion is exceeded in 1996 with 2 samples (data	summary su	ubmitted	2/29/96	by the	e Puyallup Tribe).			
				Pierce County Conservation District data (submitted by Timothy Barbee on 6/26/97) show 2 (mouth) in 1996.	excursions	beyond t	he crite	rion ou	ut of 3 samples at st	ation CC7		
				Pierce County Conservation District data (submitted by Timothy Barbee on 6/26/97) show 2 1996.	excursions	beyond t	he crite	rion ou	ut of 3 samples at st	ation CC5 in		
10	7499	5	Υ	CLARKS CREEK	AD37IU	5.396	20N	04E	32	рН		Water
				Pierce County Conservation District data (submitted by Timothy Barbee on 6/26/97) show 2 1996.	excursions	beyond t	he crite	rion ou	it of 3 samples at st	ation CC1 in	Low pH	

Wednesday, November 2, 2005

Page 1 of 11

WRIA	Listing ID Cate	egory	98 List?	Waterbody Name Basis	Location	Informat	ion				Parameter	Medium Remarks
10	7501	5	Υ	CLEAR CREEK Ebbert, et al. 1987., 2 excursions beyond the criterion (at 31st Avenue) on 11/83 and 2/84.	UP04FV	0	201	N 0:	3E	11	Fecal Colifor	m Water Fecal coliform data were previously submitted only in
				Ebbert, et al. 1997., 2 excursions beyond the effection (at 91st Avenue) on 17709 and 2794.								hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.
10	20319	5	N	CLEARWATER RIVER	YH06OQ	0	191	N 0	8E	07	Temperature	Water
				Department of Ecology unpublished data (submitted by Joanne Schuett-Hames, SWRO, on at River Mile 0.4 show the 7-day mean of daily maximum temperature of 16.11 from measure data (submitted by Joanne Schuett-Hames, SWRO, on 13 December 2002) collected from V mean of daily maximum temperature of 15.29 with the highest daily maximum of 16.46 from	ements col /DFW Seg	llected 7. gment Nu	/4 - 9/4 _. umber 1	, 199 10.00)6. Pu)8 at F	uyallup Indian Tribe River Mile 0.5 show	unpublished	
10	20320	5	N	CLEARWATER RIVER	YH06OQ	1.776	191	N 0	8E	17	Temperature	Water
				Muckleshoot Indian Tribe unpublished data (submitted by Joanne Schuett-Hames, SWRO, of at River Mile 1.2 show the 7-day mean of daily maximum temperature of 17.04 from measurements.						m WDFW Segment	Number 10.008	8White River Spring Chinook Habitat Guidance: A Water Quality Management Plan (1997) meet the requirements for excluding these segments from
the				Data collected by the Muckleshoot Indian Tribal TFW staff (submitted by Karen Walter on 14 during 1992.	Feb 94) s	show mu	ıltiple e	xcurs	sions l	beyond the criterion	(RM 1.2)	list under 40 CFR 103.7(b)(1)(iii). (taken from 1998 list database)
10	20321	5	N	CLEARWATER RIVER	YH06OQ	3.831	191	N 0	8E	16	Temperature	Water
				Department of Ecology unpublished data (submitted by Joanne Schuett-Hames, SWRO, on at River Mile 2.1 show the 7-day mean of daily maximum temperature of 17.64 from measure data (submitted by Joanne Schuett-Hames, SWRO, on 13 December 2002) collected from V mean of daily maximum temperature of 16.5 from measurements collected 7/7 - 9/30, 1995.	ements col	llected 7	, 4 - 9/4,	, 199	6. Pu	uyallup Indian Tribe	unpublished	
10	20322	5	N	CLEARWATER RIVER	YH06OQ	4.423	191	N 0	8E	21	Temperature	Water
				Department of Ecology unpublished data (submitted by Joanne Schuett-Hames, SWRO, on at River Mile 2.7 show the 7-day mean of daily maximum temperature of 17.89 from measure data (submitted by Joanne Schuett-Hames, SWRO, on 13 December 2002) collected from V mean of daily maximum temperature of 14.83 with the highest daily maximum of 16.27 from	ements col	llected 7. gment Nu	/4 - 9/4 _. umber 1	, 199 10.00)6. Pu)8 at F	ıyallup Indian Tribe River Mile 3.15 shov	unpublished	
10	20323	5	N	CLEARWATER RIVER	YH06OQ	7.007	191	N 0	8E	27	Temperature	Water
				Department of Ecology unpublished data (submitted by Joanne Schuett-Hames, SWRO, on at River Mile 4.3 show the 7-day mean of daily maximum temperature of 18.1 from measured						WDFW Segment Nu	ımber 10.008	
10	20324	5	N	CLEARWATER RIVER	YH06OQ	8.328	191	N 0	8E	28	Temperature	Water
				Puyallup Indian Tribe unpublished data (submitted by Joanne Schuett-Hames, SWRO, on 13 River Mile 3.8 show the 7-day mean of daily maximum temperature of 17.04 from measurem data (submitted by Joanne Schuett-Hames, SWRO, on 13 December 2002) collected from V mean of daily maximum temperature of 16.5 from measurements collected 7/4 - 9/20, 2001.	ents collec	cted 7/6	- 9/30, ·	1995	. Puy	allup Indian Tribe u	npublished	

WRIA	Listing ID Categ	ory 9	98 List?	Waterbody Name	Location	Informa	ation				Parameter	Medium
				Basis								Remarks
10	20325	5	N	CLEARWATER RIVER	YH06OQ	8.68	7 19N	N 081	E 34	Į	Temperature	Water
				Department of Ecology unpublished data (submitted by Joanne Schuett-Hames, SWRO, on at River Mile 4.9 show the 7-day mean of daily maximum temperature of 16.77 from measur data (submitted by Joanne Schuett-Hames, SWRO, on 13 December 2002) collected from wean of daily maximum temperature of 13.85 with the highest daily maximum of 15.08 from	ements col VDFW Seg	lected ment N	7/4 - 9/1 [.] Number 1	1, 1990 10.008	6. Puy at Riv	allup Indian Tribe er Mile 5.7 show	unpublished	
10	10175	5	N	COMMENCEMENT BAY	390KRD	4712	22C4J4	47.	.295	122.445	Dissolved or	kygen Water
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station CMB003 (Commencement of 96 samples collected between 1993-2000	it Bay - Bro	owns Po	oint) sho	ws 34	excur	sions beyond the	criterions out	This listing was reviewed by Ecology Marine Unit staff for natural conditions, with the conclusion that anthropogenic sources appear to contribute to the D.O. exceedances. This listing should be left on Category 5 (Grantham memo,
4/2005)												, (, , , , , , , , , , , , , , , , , ,
10	8669	5	Υ	COMMENCEMENT BAY (INNER)	GK89AF	0	211	N 031	E 99)	Dieldrin	Tissue
				Johnson and Davis, 1996., excursion beyond the National Toxics Rule criterion calculated Waterway at the mouth of Hylebos Creek.	for tissue i	n muss	sel sampl	les col	llected	l in 1995 from Hyl	ebos	
10	8671	5	N	COMMENCEMENT BAY (INNER)	GK89AF	0	211	N 031	E 99)	Total PCBs	Tissue
				Johnson and Davis, 1996., excursion beyond the National Toxics Rule criterion calculated Waterway at the mouth of Hylebos Creek.	for tissue i	n muss	sel sampl	les col	llected	l in 1995 from Hyl	ebos	
10	35738	5	N	COMMENCEMENT BAY (INNER)	390KRD	4712	22C4F3	47.	.255	122.435	Total PCBs	Tissue
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rul tissue tissue tissue tissue tissue tissue samples collected in 1991-1997 from English sole (Figure 2014). Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion with tissue tissue tissue tissue samples collected in 1997-1999 from English sole (Pleuronectes of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded collected in 1998-1999 from brown rockfish (Sebastes auriculatus) samples from station CC	Pleuronecte vas exceed vetulus) sa in single	es vetul ded in a amples	lus) sam a compos from sta	nples fr site of ation C	rom st more OMM	ation COMMBAY than 5 muscle tise BAY. Washingtor	. Washington sue tissue n Department	
10	35655	5	N	COMMENCEMENT BAY (OUTER)	390KRD	4712	22C4I2	47.	.285	122.425	Bis(2- ethylhexyl)p	Tissue hthalate
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rul tissue tissue tissue tissue tissue samples collected in 1993 from English sole (Pleuronectes								

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Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue ti

Water Body Name changed 03/03/04 from Commencement Bay (Inner) to Dalco Passage/Poverty Bay per comment 0044.

0 35741 5 N DALCO PASSAGE/POVERTY BAY

390KRD 47122D3E8 47.345 122.385 Total PCBs

Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue ti

10 35743 5 N DALCO PASSAGE/POVERTY BAY

390KRD 47122D4A5 47.305 122.455 Total PCBs

Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue tissue tissue tissue tissue tissue tissue tissue tissue samples collected in 1992-1995 from quillback rockfish (Sebastes maliger) samples from station BNSPNT.

10 8678 5 Y FIFE DITCH

ZV38XK 0.261 20N 03E 01 Ammonia-N

Water

Tissue

Tissue

Ebbert, et al. 1987., 2 excursions beyond the criterion (at 54th Street E.) on 8/12/83 and 4/27/84.

		- 3)		2000					•			****
				Basis							Remarks	
10	7503	5	Υ	FIFE DITCH zv38	8XK (0.261	20N	03E	01	Dissolved ox	ygen	Water
to				Ebbert, et al. 1987., 4 excursions beyond the criterion (at 54th Street E.) on 8/12/83, 11/4/83, 2/20	20/84, an	nd 4/27/8	4.				Policy 1-11 (update number of years of impairments . Base DO statewide, it wa excursions for at lea used as an alternat	nent of data it was determined that WQ ed 9/03) was overly restrictive for the data excursions needed to list for D.O. ed on a review of monitoring studies for its determined that multiple (3 or more) ast two years of monitoring should be ive indicator that a waterbody continues y, ECY/WQP, 2003)
10	7504	5	Y	FIFE DITCH zv38	8XK (0.261	20N	03E	01	Fecal Colifor	m	Water
.•		•	•	Ebbert, et al. 1987., 3 excursions beyond the criterion (at 54th Street E.) in 8/83, 11/83, and 2/84.			20.1	002	•		Fecal coliform data	were previously submitted only in e water segment is listed as Category 5
10	7505	5	Υ	FOX CREEK PASS	8SG (0.84	18N	05E	28	Temperature		Water
				Data collected by the Muckleshoot Indian Tribe (submitted by Chantal Stevens on 10/31/97) show during 8/97 and 9/97 at Fox Creek RM 0.9.	/ 26 excu	ırsions b	eyond t	he cri	terion out of 60 samp		results reported as is continued from 1	ature measurements were taken, but single day maximums. Category 5 listing 998 assessment based on multiple ntinuous monitoring.
10	15888	5	Υ	HYLEBOS CREEK RL09	9XF 7	7.574	20N	04E	05	Fecal Colifor	m	Water
				Seattle-Metro unpublished data from station B920 (at Milton) show thgeometric mean criterion was	s exceed	ded in 19	87.					
10	15887	5	Y	•	1HR (21N			Fecal Colifor	m	Water
				Seattle-Metro unpublished data from station D920 (at South 373rd Street) show the geometric mea	an criter	ion was	exceed	ed in '	1987.			
10	36173	5	N		9XF (21N			Chlorinated I		Tissue
				Collier, et al. 1998, show exposure to chlorinated pesticides are associated with several types of re	eproduc	tive injur	y in the	Engli	sh sole.		Assigned new WAS	SWIS ID. Was RL09XFkk
10	36174	5	N		9XF (21N			DDT		Tissue
				Collier, et al. 1998, show exposure to DDT are clearly linked to elevated levels of DMA adducts and sole and rock sole.	nd cytoch	nrome P	4501A ((CYP1	A) activities in liver o	f English	Assigned new WAS	SWIS ID. Was RL09XFkk
10	36176	5	N	HYLEBOS WATERWAY RL09	9XF (0	21N	03E	99	PAHs		Tissue
				Collier, et al. 1998, show exposure to PAHs are clearly linked to elevated levels of DNA adducts ar sole and rock sole, as well as several types of reproductive injury.	ind cytoo	chrome P	4501A	(CYP	1A) activities in liver	of English	Assigned new WAS	SWIS ID. Was RL09XFkk

Location Information

Medium

Parameter

WRIA Listing ID Category 98 List? Waterbody Name

WRIA	Listing ID Cat	tegory	98 List?	Waterbody Name	Location	Informat	ion			Parameter		Medium
				Basis							Remarks	
10	36178	5	N	HYLEBOS WATERWAY	RL09XF	_		03E		Total PCBs		Tissue
				Collier, et al. 1998, show exposure to PCBs are clearly linked to elevated levels of DMA addesole and rock sole.	ucts and c	ytochrom	ie P450	1A (CY	P1A) activities in live	er of English		
10	7506	5	Υ	KINGS CREEK	XK66ZF	0.72	18N	05E	34	Temperature	е	Water
				Data collected by the Muckleshoot Indian Tribe (submitted by Chantal Stevens on 10/31/97) during 8/97 and 9/97 at Kings Creek RM 1.2.	show 8 ex	cursions	beyond	the crit	terion out of 60 samp	oles (15%)	results reported as is continued from 1	rature measurements were taken, but single day maximums. Category 5 listing 998 assessment based on multiple intinuous monitoring.
10	20338	5	N	LYLE CREEK	XX02MC	0	19N	08E	27	Temperatur	e	Water
				Department of Ecology unpublished data (submitted by Joanne Schuett-Hames, SWRO, on at River Mile 0.1 show the 7-day mean of daily maximum temperature of 16.03 from measur unpublished data (submitted by Joanne Schuett-Hames, SWRO, on 13 December 2002) coll the 7-day mean of daily maximum temperature of 12.33 with the highest daily maximum of 13	ements co ected fron	ollected 7 n WDFW	9/11/Segme	l, 1996. nt Num	. Muckleshoot Indian ber 10.0088 at River	Tribe		
10	7508	5	Υ	MEEKER DITCH	WC64LH	1.304	20N	04E	33	Fecal Colifo	rm	Water
				Pierce County Conservation District data (submitted by Timothy Barbee on 6/26/97) show no stations on this segment.	merous hi	igh fecal	coliform	values	with 5 samples in 19	996 at multiple		e water segment is listed as Category 5
10	7511	5	Υ	MEEKER DITCH	WC64LH	1.304	20N	04E	33	pН		Water
				Pierce County Conservation District data (submitted by Timothy Barbee on 6/26/97) show 5 multiple stations on this segment.	excursions	beyond	the crite	erion ou	it of 5 sampling dates	s in 1996 at	Low pH	
10	20339	5	N	MILKY CREEK	IG62SF	0	19N	08E	34	Temperature	e	Water
				Department of Ecology unpublished data (submitted by Joanne Schuett-Hames, SWRO, on at River Mile <0.1 show the 7-day mean of daily maximum temperature of 20.95 from measurements.)						umber 10.0089	9	
10	7498	5	Υ	PUYALLUP RIVER	PX29AG	7.735	20N	04E	18	Fecal Colifo	orm	Water
				Hallock (2004), Dept. of Ecology ambient station 10A050 shows 1 of 4 samples (25%) in year	r 2001 ex	ceeded tl	ne perce	entile cr	iterion.			were previously submitted only in
		Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A050 (Puyallup R @ Puyallup (USGS)) shows a geometric mean of 42 does not exceed the percentile criterion from 10 samples collected during 2001.					eed the	hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.				

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A050 (Puyallup R @ Puyallup (USGS)) shows a geometric mean of 115 exceeds the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 2000.

Ebbert, et al. 1987., 3 excursions beyond the criterion at station 12102100 (At River Road) in 8/83, 11/83, and 2/84;

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows a geometric mean of 35 does not exceed the criterion and that 10% of the samples does not exceed the percentile criterion from 10 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows a geometric mean of 50 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows a geometric mean of 35 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows a geometric mean of 60 does not exceed the criterion and that 17% of the samples exceeds the percentile criterion from 12 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows a geometric mean of 171 exceeds the criterion and that 45% of the samples exceeds the percentile criterion from 11 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows a geometric mean of 92 does not exceed the criterion and that 17% of the samples exceeds the percentile criterion from 6 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows a geometric mean of 129 exceeds the criterion and that 10% of the samples does not exceed the percentile criterion from 10 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows a geometric mean of 123 exceeds the criterion and that 25% of the samples exceeds the percentile criterion from 12 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows a geometric mean of 138 exceeds the criterion and that 42% of the samples exceeds the percentile criterion from 12 samples collected during 1993.

10 35421 5 N PUYALLUP RIVER PX29AG 7.735 20N 04E 18 Mercury Water

Hallock (2004), Dept. of Ecology ambient station 10A050 shows 1 sample in year 2003 exceeded the chronic criterion.

Puyallup Tribe of Indians unpublished data (submitted by Char Naylor on 3 March 2003) show 1 excursion beyond the chronic criterion from 3 samples collected in 2002 at RM 5.8.

10 6877 5 Y SCATTER CREEK EW02LH 0.476 19N 07E 02 Temperature Water

Data collected by the Muckleshoot Indian Tribal TFW staff (submitted by Karen Walter on 14 Feb 94) show multiple excursions beyond the criterion along the reach between RM 0 and RM 2.5 (use mouth segment for listing) 7/22/91 and 8/9/91.

WASWIS and Lower Route address redefined on 02/17/05. Changed from LY34GL 51.365 to EW02LH 0.476. -kk

Changed from Category 2 to Category 5 on 01/24/05 due to

consolidation with Listing ID 42777 (cat 2). -kk

Continuous temperature measurements were taken, but data were previously submitted in software that does not provide for analysis of the data. The water segment is listed as Category 5 based on the 1998 assessment.

Wednesday, November 2, 2005

Page 7 of 11

WRIA	Listing ID Ca	ategory	98 List?	Waterbody Name Basis	Location I	nformat	ion			Parameter	Remarks	Medium
10	7513	5	Y	SUMMIT LAKE Eilers et al, 1996, Documented sensitivity to acid rain loading. pH has steadily declined fro	588ANI m 5.92 in 1		08E 5.30 in 1		d 1996	рН	Low pH	Water
10	7514	5	Y	SWAN CREEK Ebbert, et al. 1987., 2 excursions beyond the criterion at station12102212 (at Pioneer Way) Ebbert, et al. 1987., 3 excursions beyond the criterion at station 12102202 (at Pioneer Way)		and 2/84	l, .	I 03E	11	Fecal Colifor	Fecal coliform data	Water were previously submitted only in e water segment is listed as Category 5 assessment.
10	9864	5	Y	UNNAMED CREEK Roberts (2001) station T1 (UNNAMED TRIBUTARY ID 14309) shows the geometric mean of samples exceeds the percentile criterion from 10 samples collected during 2001. Roberts (2001) station T1ID (UNNAMED TRIBUTARY) shows the geometric mean of 593.86 exceeds the percentile criterion from 3 samples collected during 2001.; ;		321347	27 exce		e criterion and that 60		rm	Water
10	7518	5	Y	WAPATO CREEK Ebbert, et al. 1987. 4 excursions beyond the criterion at station 12102490 (at Union Pacific F	ZV38XK RR near No			-		Dissolved on and 4/25/84.	During the assessr Policy 1-11 (update number of years of impairments . Bas DO statewide, it wa excursions for at le used as an alternati	Water nent of data it was determined that WQ and 9/03) was overly restrictive for the data excursions needed to list for D.O. and on a review of monitoring studies for its determined that multiple (3 or more) ast two years of monitoring should be give indicator that a waterbody continues by, ECY/WQP, 2003)
10	7519	5	Y	WAPATO CREEK Ebbert, et al. 1987. 4 excursions beyond the criterion at station 12102510 (at 12th Street E.	MM40DB in Fife) on	-		I 03E 83, 2/13		Dissolved or	During the assessr Policy 1-11 (update number of years of impairments . Bas DO statewide, it wa excursions for at le used as an alternati	Water ment of data it was determined that WQ and 9/03) was overly restrictive for the data excursions needed to list for D.O. and on a review of monitoring studies for its determined that multiple (3 or more) ast two years of monitoring should be ive indicator that a waterbody continues by, ECY/WQP, 2003)
10	7517	5	Y	WAPATO CREEK Ebbert, et al. 1987. 2 excursions beyond the criterion at station 12102490 (at Union Pacific F	ZV38XK RR near No					Fecal Colifor	Fecal coliform data	Water were previously submitted only in e water segment is listed as Category 5 assessment.

WRIA	Listing ID Cat	egory	98 List?	•	Location I	nformat	ion			Parameter	Medium	
				Basis							Remarks	
10	7520	5	Υ	WAPATO CREEK	MM40DB	0	20N	03E	E 01	Fecal Colifo	orm Water	
				Ebbert, et al. 1987. 4 excursions beyond the criterion at 12102510 (at 12th Street E. in Fife)	on 8/11/83,	11/4/8	3, 2/13/8	34, and	l 4/25/84.		Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Cate based on the 1998 assessment.	
10	7525	5	Υ	WHITE (STUCK) RIVER	LY34GL	9.004	21N	04E	36	рН	Water	
				Pelletier, 1993, 3 excursions beyond the criterion out of 3 samples at RM 6.3 on 9/18/90, 9/	/19/90, and	10/3/9).				High pH	
10	16708	5	Y	WHITE RIVER	LY34GL	34.92	1 20N	06E	34	Fecal Colifo	orm Water	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C130 (White R. at Buckley) sthe samples exceeds the percentile criterion from 9 samples collected during 1993.	shows a geo	ometric	mean o	f 103 e	exceeds the criterion	and that 33% of	f Was listed under the name White (Stuck) River in 19	98kk
				Erickson (1999) station WHI23.1 (White River (WHI23.1)) shows the geometric mean of 41.1 exceed the percentile criterion from 6 samples collected during 1996.	19 does not	exceed	the crit	erion a	and that 0% of the sa	amples does not		
10	16709	5	Υ	WHITE RIVER	LY34GL	0.505	20N	04E	49	Fecal Colifo	orm Water	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C070 (White R. at Sumner) s 33% of the samples exceeds the percentile criterion from 3 samples collected during 1996.	shows a geo	metric	mean o	f 98 do	es not exceed the c	riterion and that	Was listed under the name White (Stuck) River in 19	98kk
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C070 (White R. at Sumner) sthe samples exceeds the percentile criterion from 3 samples collected during 1995.	shows a geo	ometric	mean o	f 106 e	exceeds the criterion	and that 33% of	f	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C070 (White R. at Sumner) sthe samples exceeds the percentile criterion from 9 samples collected during 1993.	shows a geo	ometric	mean o	f 152 e	exceeds the criterion	and that 33% of	f	
10	16711	5	N	WHITE RIVER Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C095 (White River @ R Street that 0% of the samples does not exceed the percentile criterion from 9 samples collected du		12.45 geomet			29 does not exceed th	Fecal Colifo	orm Water	

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C095 (White River @ R Street) shows a geometric mean of 6 does not exceed the criterion and that 8% of the samples does not exceed the percentile criterion from 12 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C095 (White River @ R Street) shows a geometric mean of 18 does not exceed the criterion and that 13% of the samples exceeds the percentile criterion from 15 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C095 (White River @ R Street) shows a geometric mean of 14 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1998.

Erickson (1999) station WHI08.0 (White River (WHI08.0)) shows the geometric mean of 12.32 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 1996.

Wednesday, November 2, 2005

Page 9 of 11

WRIA	WRIA Listing ID Category 98 List		98 List?	Waterbody Name Basis	Location Information			Parameter	Medium Remarks		
10	7524	5	Y	WHITE RIVER Hallock (2004), Dept. of Ecology ambient station 10C095 shows that 2 of 31 samples excee	LY34GL ed the criterion		21N 05	5E 29	9	рН	Water Changed from Category 5 to Category 2 on 01/24/05 due to consolidation with Listing IDs 10856 (cat 2) and 42704 (cat
2).				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C095 (White River @ R Stree collected between 1993 - 2001.	amples	-kk Name changed from WHITE (STUCK) RIVER to WHITE					
	Erickson (1999) station WHI08.0 (White River (WHI08.0)) shows 3 excursions beyond the criterion out of 20 samples collected between 06/96 - 11/97.							/97.	RIVER 01/24/05kk		
				Pelletier, 1993, 4 excursions beyond the criterion out of 7 samples from RM 8.0 on 9/18/90,	9/19/90, 10/2	/90 and 1	0/3/90.				High pH
10	7526	5	Υ	WHITE RIVER	LY34GL	6.487	20N 04	E 0	1	рН	Water
				Ebbert, 2002, shows 15 excursions beyond the criterion from 55 daily maximum measurements	ents collected	in 2001.					High pH
				Unpublished data from the Puyallup TMDL Effectiveness Monitoring Project shows 32 excur collected in 2001.	rsions beyond	I the crite	rion from 7	70 dai	ily maximum me	asurements	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C085 (White R nr Sumner) s between 1993 - 2001.	shows 0 excu	rsions bey	ond the c	criterio	on out of 5 sampl	es collected	
				Erickson (1999) station WHI04.9 (White River (WHI04.9)) shows 3 excursions beyond the co	riterion out of	21 sampl	es collect	ted be	tween 06/96 - 11	/97.	
				Pelletier, 1993, 4 excursions beyond the criterion out of 10 samples at RM 4.9 on 9/18/90, 9)/19/90, 10/2/9	90 and 10	/3/90.				
10	17513	5	N	WHITE RIVER	LY34GL	2.468	20N 04	IE 4:	2	Temperature	Water
				Ebbert, 2002. shows a 7-day mean of maximum values of 20.0 for week ending 13 August Monitoring Project shows a 7-day mean of maximum values of 19.6 for week ending 13 Aug		lished da	ta from the	e Puy	allup TMDL Effe	ctiveness	
10	17515	5	N	WHITE RIVER	LY34GL	6.487	20N 04	IE 0	1	Temperature	Water
				Unpublished data from the Puyallup TMDL Effectiveness Monitoring Project shows a 7-day	mean of maxi	mum valu	ies of 18.9	9 for w	veek ending 1 Se	eptember 2002.	
				Dept. of Ecology unpublished data from ambient monitoring station 10C085 (White R. nr Surweek 21 July 2002	mner) shows	a 7-day n	nean of da	aily ma	aximum values c	of 21.3 for mid-	
				Ebbert, 2002. shows a 7-day mean of maximum values of 18.95 for week ending 31 August	t 2001.						
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C085 (White R nr Sumner) s between 1993 - 2001 measured on this date: 96/07/24.	shows 1 excu	rsions bey	ond the c	criterio	on out of 5 sampl	es collected	

Erickson (1999) station WHI04.9 (White River (WHI04.9)) shows 3 excursions beyond the criterion out of 6 samples collected between 06/96 - 11/97.

Erickson (1999) shows multiple excursions beyond the criterion (RM 4.9) during 1996.

Location Information

Parameter

Medium

water temperature from the Sonoco Products discharge at Sumner when upstream temperature was greater that 18

WRIA Listing ID Category 98 List? Waterbody Name

Page 11 of 11